


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	§	
FREDIN, et al.	§	Group Art Unit: <i>Unassigned</i>
	§	
Serial No.: <i>Unassigned</i>	§	
	§	Examiner: <i>Unassigned</i>
Filed: 08/07/2003	§	
	§	
Title: "METHOD AND SYSTEM FOR	§	
MEASURING OPTICAL	§	Attorney Docket No.: 065823.0110
SCATTERING CHARACTERISTICS"	§	

MAIL STOP PATENT APPLICATION
Honorale Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING VIA EXPRESS MAIL 37 C.F.R. §1.10	
PURSUANT TO 37 CFR 1.10, I HEREBY CERTIFY THAT I HAVE KNOWLEDGE AND A REASONABLE BASIS FOR BELIEF THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL POST OFFICE TO ADDRESSEE ON THE DATE INDICATED BELOW, AND IS ADDRESSED TO: MAIL STOP PATENT APPLICATION HONORABLE COMMISSIONER FOR PATENTS P.O. Box 1450 ALEXANDRIA, VA 22313-1450	
 JULIE CLEMENTS	08.07.2003 DATE
DATE OF MAILING:	08/07/2003
EXPRESS MAIL LABEL:	EV337981004US

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants respectfully request, pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, that the art listed on the attached PTO-1449 forms be considered and cited in the examination of the above-identified divisional patent application.

In accordance with 37 C.F.R. §1.98(d)(1), copies of the forty (40) cited art references on the attached three (3) pages of Form PTO-1449, specifically, references A-NN, are not attached hereto, as each of these forty (40) references was either previously submitted by the Applicant, or cited by the Examiner in the NonFinal Office Action mailed November 6, 2002, in the related patent application U.S.S.N. 09/840,060, filed April 23, 2001, which has now been allowed and which will

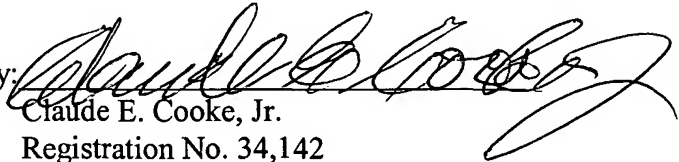
issue as U.S. Patent No. 6,606,148 on August 12, 2003.

Furthermore, pursuant to 37 C.F.R. §§1.97(g) and (h), Applicants do not represent that a search has been made and do not admit that these references are, or are considered to be, material to the patentability of the present divisional application.

As this Information Disclosure Statement is being submitted concurrently with the filing of the divisional patent application referenced above, and therefore, before the mailing of the first office action on the merits, Applicants believe that no fee is due. However, should the Commissioner deem that a fee is due, Applicants respectfully request that the Commissioner accept this as a Petition Therefor, and authorize the Commissioner to charge any fees due to Baker Botts L.L.P. Deposit Account No. 02-0383, Order No. 065823.0110.

Respectfully submitted,

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ATTORNEY FOR APPLICANTS

Date: August 7, 2003

PTO/1449				Application No. Unassigned		Applicant(s): FREDIN, et al.		
Information Disclosure Citation in an Application				Docket Number 065823.0110		Group Art Unit	Filing Date 08/07/2003	
				U.S. PATENT DOCUMENTS				
	CITE NO.	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	A.	4,355,898	10/26/1982	DAKIN (ABSTRACT ONLY)	356	346	05/23/1980	
	B.	4,495,586	01/22/1985	ANDREWS, ROLAND E.	364	487	07/29/1982	
	C.	4,673,299	06/16/1987	DAKIN	374	131	03/27/1985	
	D.	4,708,471	11/24/1987	BECKMANN, ET AL.	356	73.1	02/21/1986	
	E.	4,794,249	12/27/1988	BECKMANN, ET AL.	250	227	03/17/1987	
	F.	4,823,166	04/18/1989	HARTOG, ET AL. (ABSTRACT ONLY)	356	44	08/19/1986	
	G.	5,102,232	04/07/1992	TANABE, ET AL. (ABSTRACT ONLY)	374	131	06/26/1991	
	H.	5,113,277	05/12/1992	OZAWA, ET AL.	359	127	06/22/1990	
	I.	5,196,709	03/23/1993	BERNDT, ET AL.	250	458.1	05/03/1991	
	J.	5,272,334	12/21/1993	SAI (ABSTRACT ONLY)	250	227.21	10/16/1992	
	K.	5,292,196	03/08/1994	IIDA, ET AL. (ABSTRACT ONLY)	374	131	02/17/1993	
	L.	5,329,392	07/12/1994	COHEN	359	124	03/19/1993	
	M.	5,449,233	09/12/1995	SAI, ET AL.	374	161	06/16/1993	
	N.	5,818,240	10/06/1998	CABOT, RICHARD C.	324	626	12/12/1996	
	O.	5,981,957	11/09/1999	CRUCE, ET AL.	250	458.1	10/27/1997	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
NON/PATENT DOCUMENTS								
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)						DATE
	P.	F.L. GALEENER, ET AL., "THE RELATIVE RAMAN CROSS SECTIONS OF VITREOUS SiO ₂ , GeO ₂ , B ₂ O ₃ , AND P ₂ O ₅ ," APPL. PHYS. LETT., VOL. 32, NO. 1, PP. 34/36						JANUARY 1978

PTO/1449		Application No. Unassigned	Applicant(s): FREDIN, et al.	
Information Disclosure Citation in an Application		Docket Number 065823.0110	Group Art Unit	Filing Date 08/07/2003
	Q.	P. DI VITA, ET AL., "THE BACKSCATTERING TECHNIQUE: ITS FIELD OF APPLICABILITY IN FIBRE DIAGNOSTICS AND ATTENUATION MEASUREMENTS," OPTICAL AND QUANTUM ELECTRONICS , VOL. 11 , PP. 17/22		1980
	R.	P. HEALEY, "OPTICAL TIME DOMAIN REFLECTOMETRY – A PERFORMANCE COMPARISON OF THE ANALOGUE AND PHOTON COUNTING TECHNIQUES," OPTICAL AND QUANTUM ELECTRONICS, VOL. 16 , PP. 267/276		1984
	S.	G.W. BIBBY, ET AL., "RAMAN THERMOMETRY USING OPTICAL FIBRES," ANALYTICAL PROCEEDINGS, VOL. 22, No. 7 , PP. 213/214		JULY 1985
	T.	A.H. HARTOG, ET AL., "DISTRIBUTED TEMPERATURE SENSING IN SOLID/CORE FIBRES," ELEC LETTERS, VOL. 21 , PP. 1061/1062		NOV. 1985
	U.	J.P. DAKIN, ET AL., "TEMPERATURE DISTRIBUTION MEASUREMENT USING RAMAN RATIO THERMOMETRY," SPIE FIBER OPTIC AND LASER SENSORS III, VOL. 566 , PP. 249/256		1985
	V.	R. STIERLIN, ET AL., "DISTRIBUTED FIBER/OPTIC TEMPERATURE SENSOR USING SINGLE PHOTON COUNTING DETECTION," APPLIED OPTICS, VOL. 26, NO. 8 , PP. 1368/1370		04/15/87
	W.	J.K.A. EVERARD, ET AL., "DISTRIBUTED OPTICAL FIBRE TEMPERATURE SENSOR USING SPREAD/SPECTRUM TECHNIQUES," ELECTRONICS LETTERS, VOL. 25, No. 2 , PP. 140/142		01/19/89
	X.	B.K. GARSIDE, ET AL., "A PHOTON COUNTING OPTICAL TIME/DOMAIN REFLECTOMETER FOR DISTRIBUTED SENSING APPLICATIONS," SPIE FIBER OPTIC AND LASER SENSORS VII, VOL. 1169 , PP. 89/97		1989
	Y.	M.A. MARCUS, ET AL., "REAL/TIME DISTRIBUTED FIBER/OPTIC TEMPERATURE SENSING IN THE PROCESS ENVIRONMENT," SPIE CHEMICAL, BIOCHEMICAL, AND ENVIRONMENTAL SENSORS, VOL. 1172 , PP. 194/205		1989
	Z.	HEWLETT/PACKARD, "HP 8703A LIGHTWAVE COMPONENT ANALYZER: TECHNICAL SPECIFICATIONS," HEWLETT/PACKARD, PP. 1/16		1990
	AA.	Z. ZHANG, ET AL., "A NOVEL SIGNAL PROCESSING SCHEME FOR A FLUORESCENCE BASED FIBER/OPTIC TEMPERATURE SENSOR," REV. SCI. INSTRUM., VOL. 62 (7) , PP. 1735/1742		JULY 1991
	BB.	P.R. ORRELL, ET AL., "FIBER OPTIC DISTRIBUTED TEMPERATURE SENSING," FIRST EUROPEAN CONFERENCE ON SMART STRUCTURES AND MATERIALS, PP. 151/154		1992
	CC.	AGILENT TECHNOLOGIES, "HIGH/SPEED LIGHTWAVE COMPONENT ANALYSIS: APPLICATION NOTE 1550/6," AGILENT TECHNOLOGIES, PP. 1/23		1992
	DD.	HEWLETT/PACKARD, "HIGH/SPEED LIGHTWAVE COMPONENT ANALYSIS: APPLICATION NOTE 1550/6," HEWLETT/PACKARD, PP. 1/23		DATE UNAVAIL/ABLE
	EE.	J. ZOU, ET AL., "DISTRIBUTED FIBER OPTICAL TEMPERATURE SENSOR USING DIGITAL BOXCAR INTEGRATOR," SPIE MEASUREMENT TECHNOLOGY AND INTELLIGENT INSTRUMENTS, VOL. 2101 , PP. 412/414		1993
	FF.	J.S. NAMKUNG, ET AL., "FIBER OPTIC DISTRIBUTED TEMPERATURE SENSOR USING RAMAN BACKSCATTERING," SPIE, VOL. 1819 , PP. 82/88		1993
	GG.	J.R. ALCALA, ET AL., "REAL TIME FREQUENCY DOMAIN FIBEROPTIC TEMPERATURE SENSOR," IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. 42, No. 5 , PP. 471/476		MAY 1995
	HH.	M. HOBEL, ET AL., "HIGH/RESOLUTION DISTRIBUTED TEMPERATURE SENSING WITH THE MULTIPHOTON/TIMING TECHNIQUE," APPLIED OPTICS, VOL. 34, NO. 16 , PP. 2955/2967		JUNE 1995
	II.	J.P. DAKIN, ET AL., "DISTRIBUTED OPTICAL FIBRE RAMAN TEMPERATURE SENSOR USING A SEMICONDUCTOR LIGHT SOURCE AND DETECTOR," ELECTRONICS LETTERS, VOL. 21, No. 10 , PP. 569/570		1995
	JJ.	HEWLETT/PACKARD, "FIBER OPTIC TEST SOLUTIONS FOR NETWORK INSTALLATION AND MAINTENANCE," HEWLETT/PACKARD, PP. 1/12		1997
	KK.	LUTES, ET AL., "SWEPT/FREQUENCY FIBER/OPTIC READOUT FROM MULTIPLE SENSORS AND TECHNICAL SUPPORT PACKAGE," NASA TECH BRIEFS, VOL. 21, No. 10, ITEM #192, PP. 35, AND JPL NEW TECHNOLOGY REPORT NPO/19725, PP. 1, 1/2, AND 1A/6A		OCTOBER 1997

PTO/1449		Application No. Unassigned		Applicant(s): FREDIN, et al.	
Information Disclosure Citation in an Application		Docket Number 065823.0110		Group Art Unit	Filing Date 08/07/2003
	LL.	HITACHI CABLE, LTD., "FTR: HITACHI FIBER OPTIC TEMPERATURE LASER RADAR," HITACHI CABLE, LTD., PP. 1/6			1999
	MM.	HITACHI CABLE, LTD., "FTR APPLICATION DATA SHEET TD/462C," HITACHI CABLE, LTD., PP. 1/14			DATE UNAVAIL/ ABLE
	NN.	B. HUTTNER, ET AL., "OPTICAL FREQUENCY DOMAIN REFLECTOMETER FOR CHARACTERIZATION OF OPTICAL NETWORKS AND DEVICES," COMTEC, VOL. 3/99, PP. 20/23			1999
EXAMINER				DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					